ET 420078243US

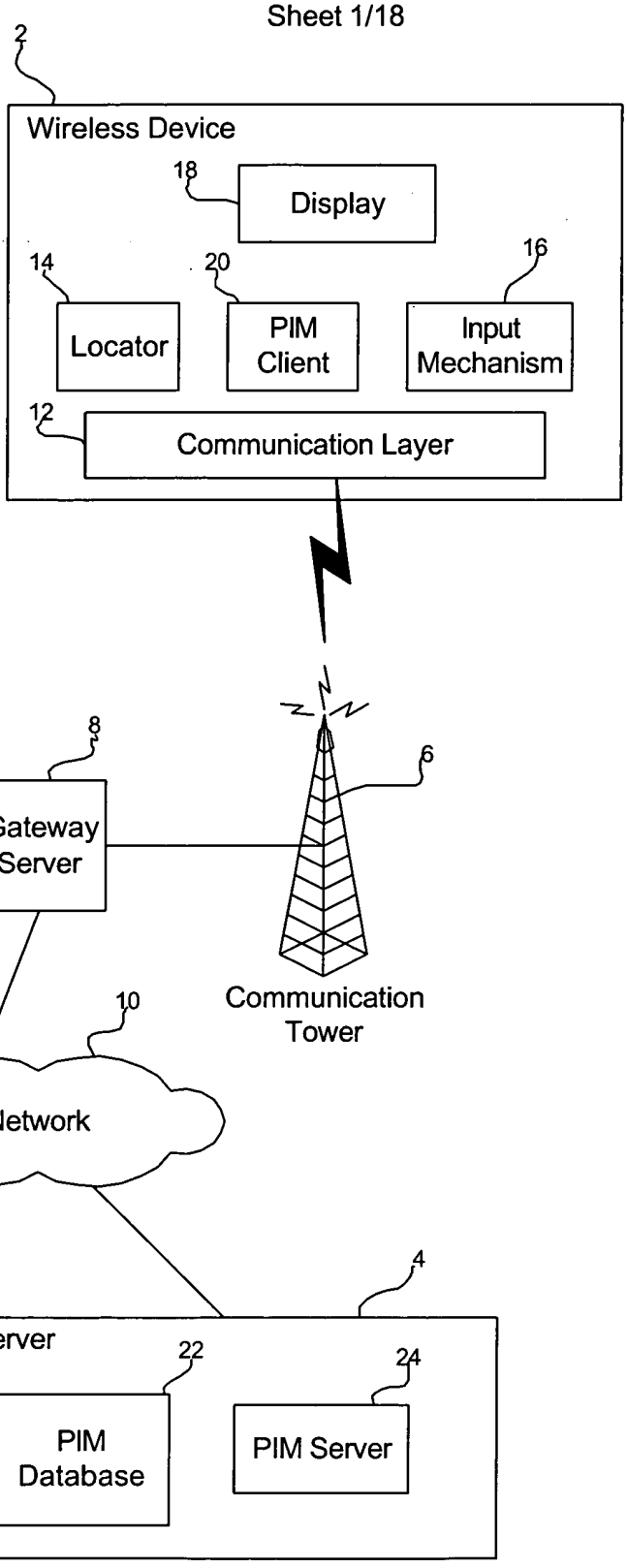

FIG. 1

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FIG. 2

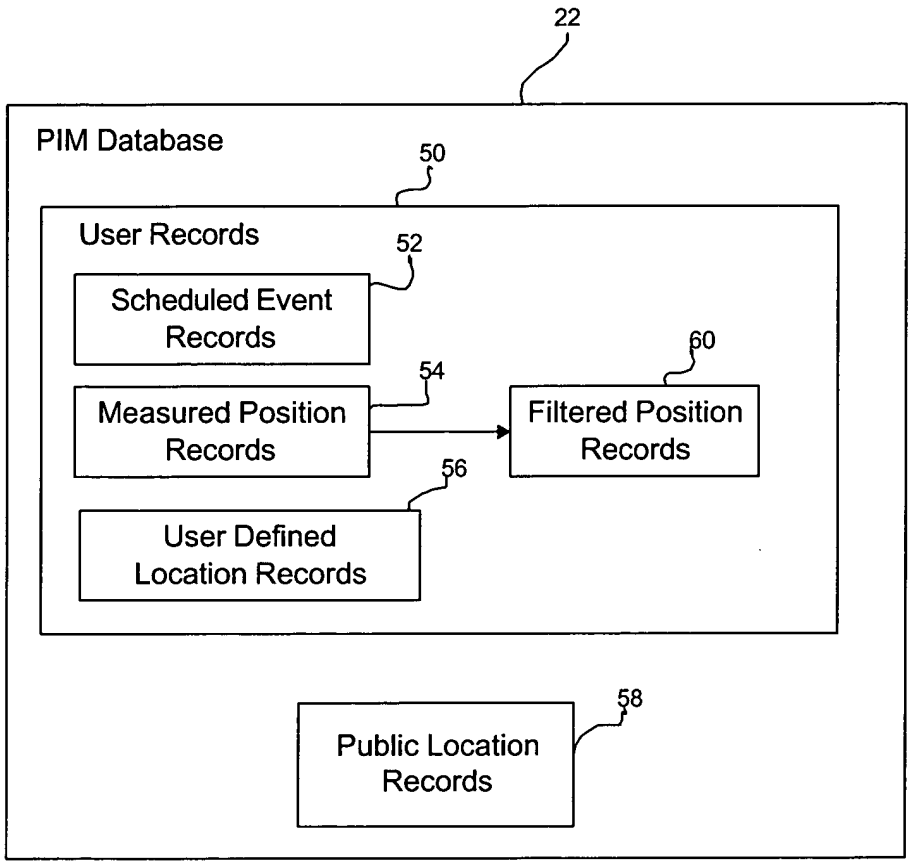
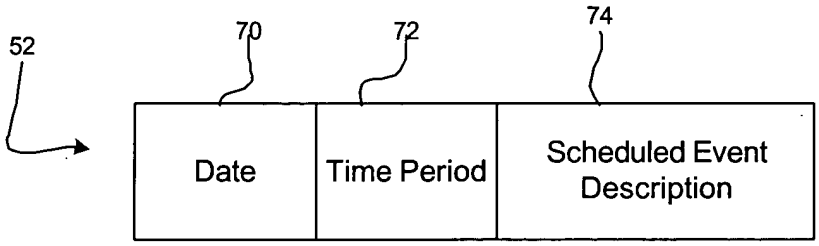
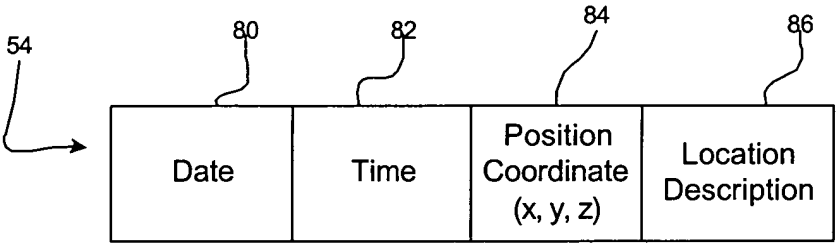

22
PIM Database
50
User Records
52
Scheduled Event Records
54
Measured Position Records
60
Filtered Position Records
56
User Defined Location Records
58
Public Location Records

FIG. 3a



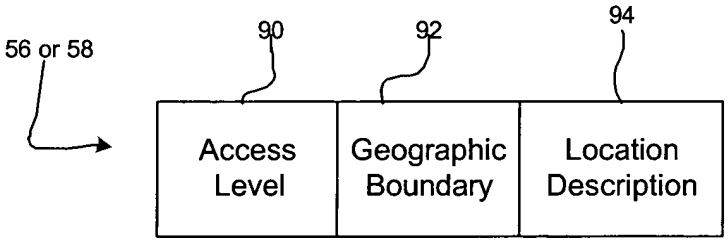
Scheduled Event Record

FIG. 3b



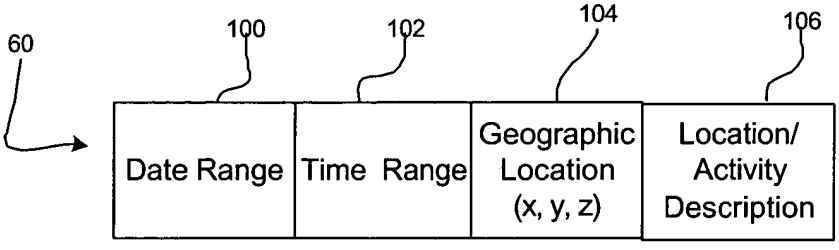
Measured Position Record

FIG. 3c



Location Record

FIG. 3d



Filtered Position Record

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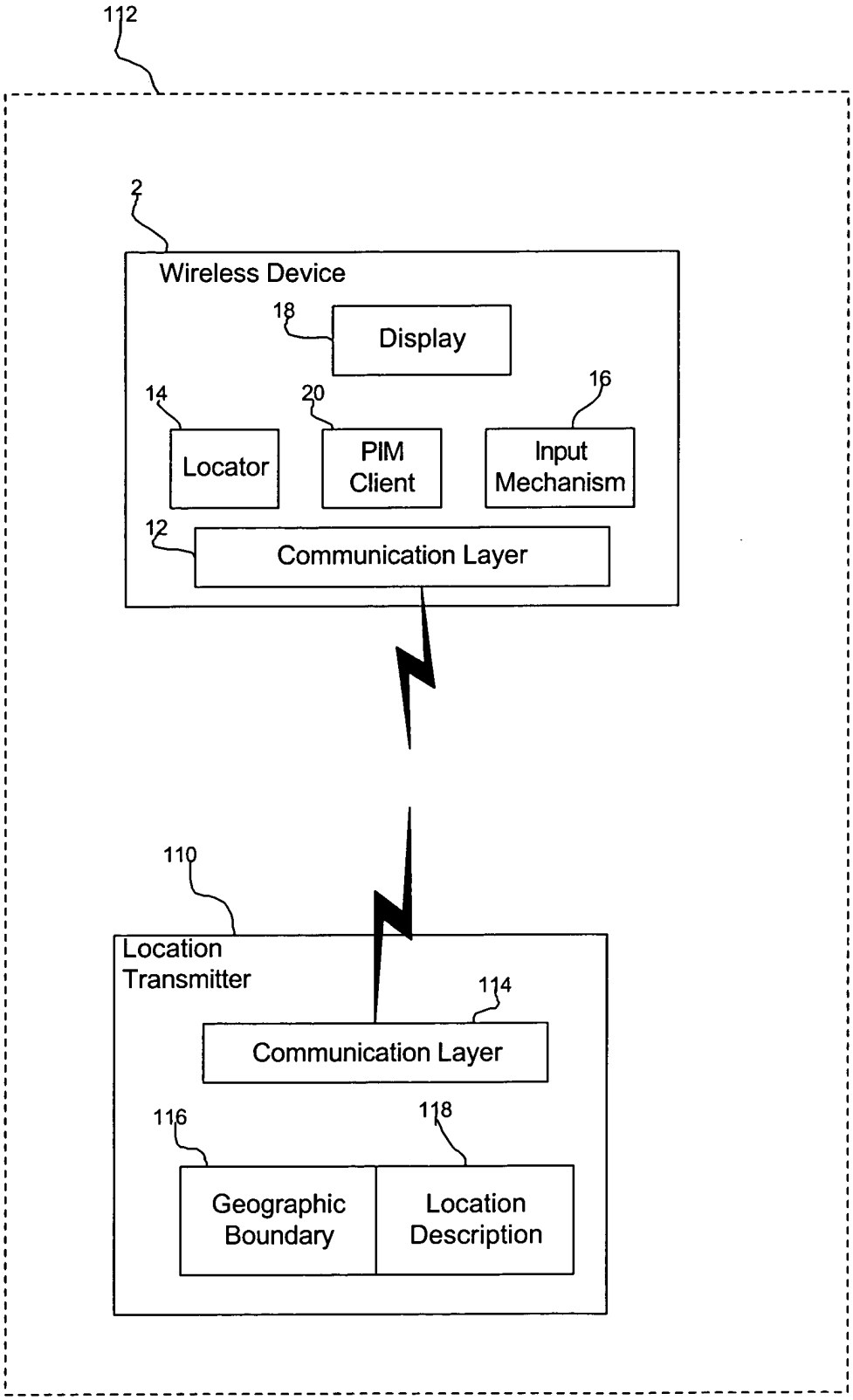
FIG. 4


112
2
Wireless Device
18
Display
14
Locator
20
PIM Client
16
Input Mechanism
12
Communication Layer
110
Location Transmitter
114
Communication Layer
116
Geographic Boundary
118
Location Description

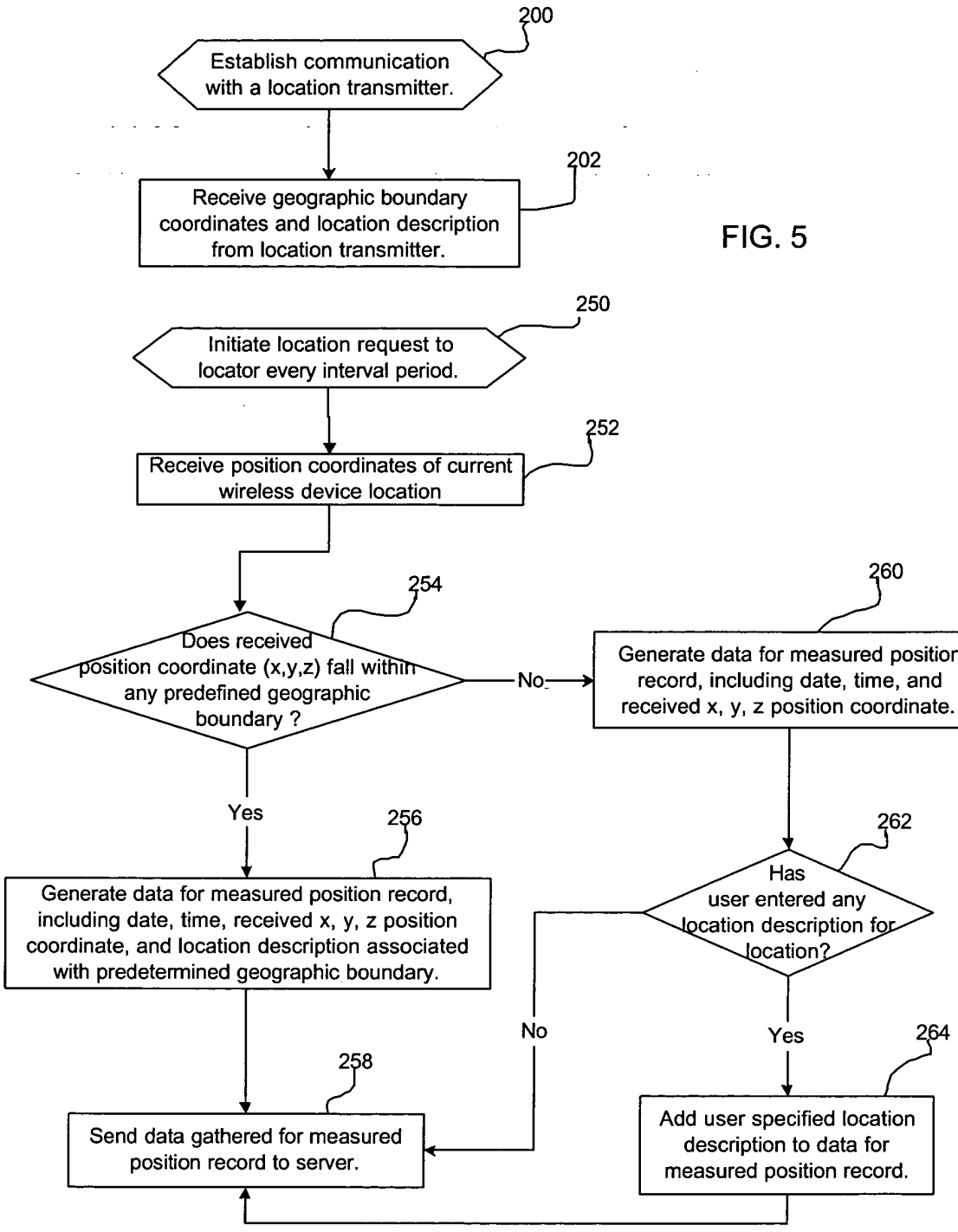


FIG. 5

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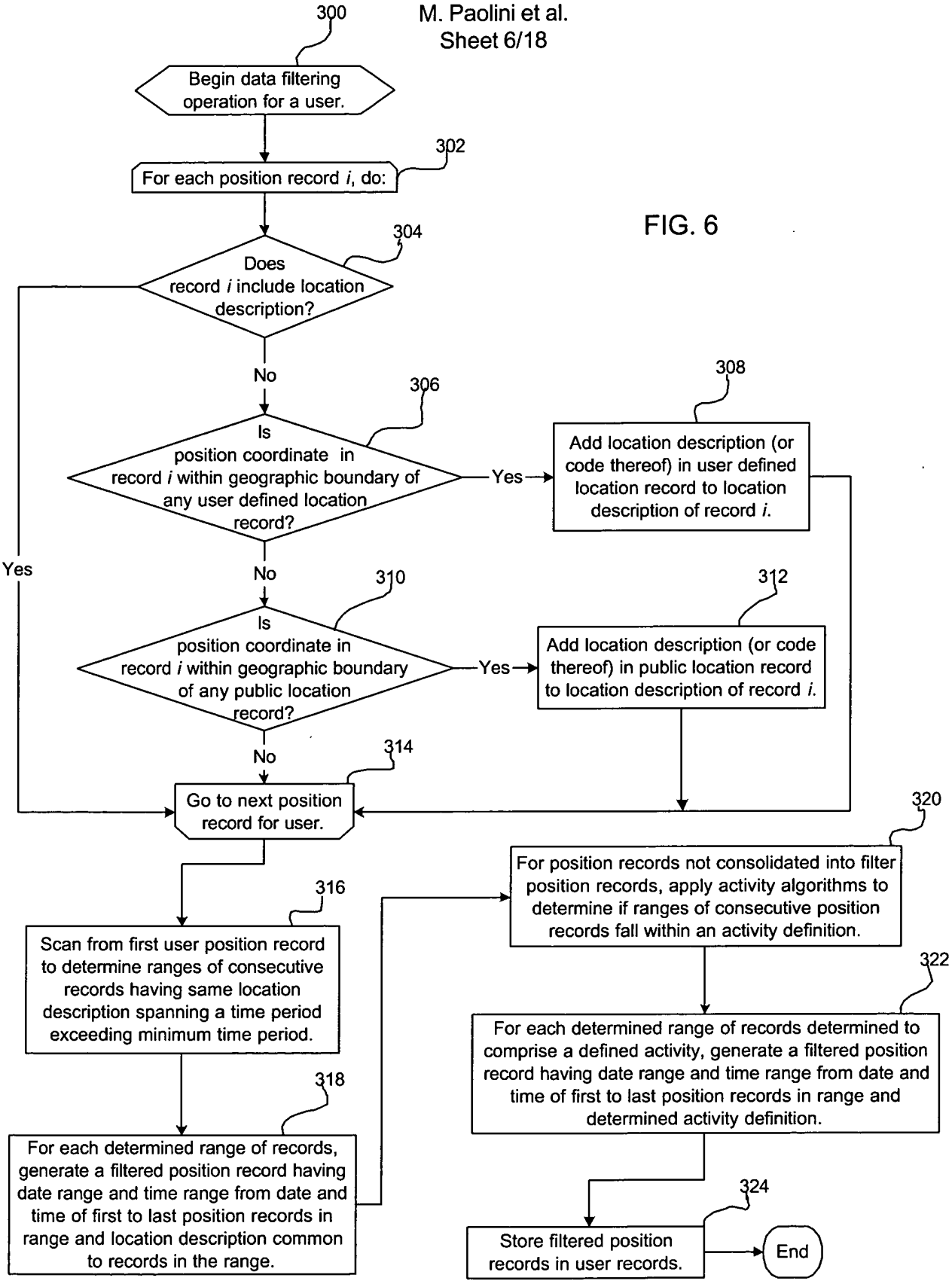
300
Begin data filtering operation for a user.
302
For each position record i, do:
304
Does record i include location description?
Yes
No
306
Is position coordinate in record i within geographic boundary of any user defined location record?
Yes
308
Add location description (or code thereof) in user defined location record to location description of record i.
No
310
Is position coordinate in record i within geographic boundary of any public location record?
Yes
312
Add location description (or code thereof) in public location record to location description of record i.
No
314
Go to next position record for user.
316
Scan from first user position record to determine ranges of consecutive records having same location description spanning a time period exceeding minimum time period.
318
For each determined range of records, generate a filtered position record having date range and time range from date and time of first to last position records in range and location description common to records in the range.
320
For position records not consolidated into filter position records, apply activity algorithms to determine if ranges of consecutive position records fall within an activity definition.
322
For each determined range of records determined to comprise a defined activity, generate a filtered position record having date range and time range from date and time of first to last position records in range and determined activity definition.
324
Store filtered position records in user records.
End

FIG. 6

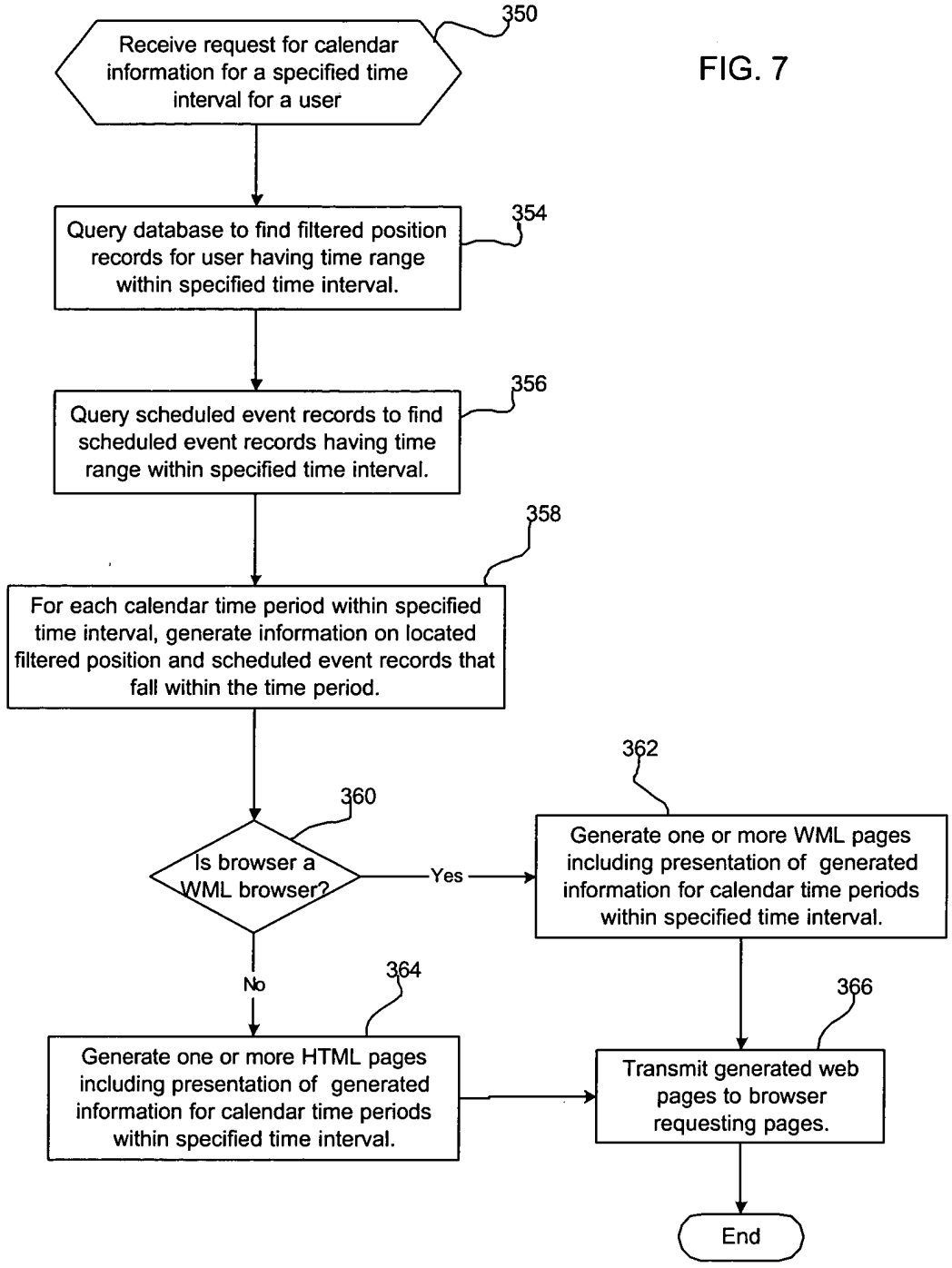

FIG. 7

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FIG. 8

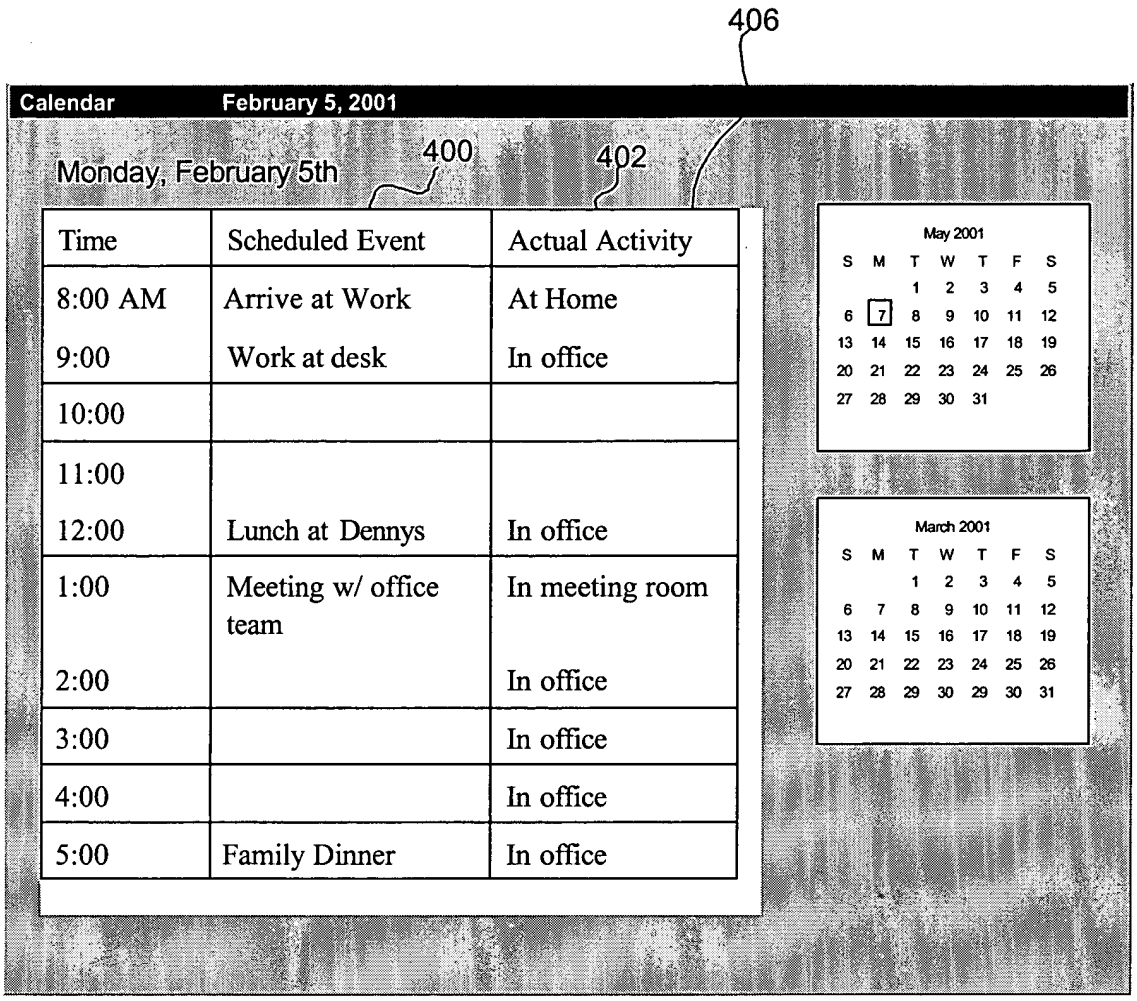

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FIG. 9a

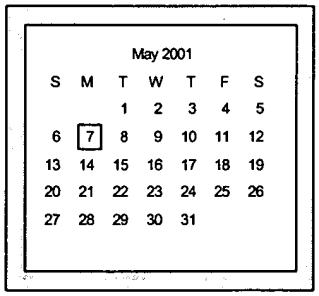

FIG. 9b

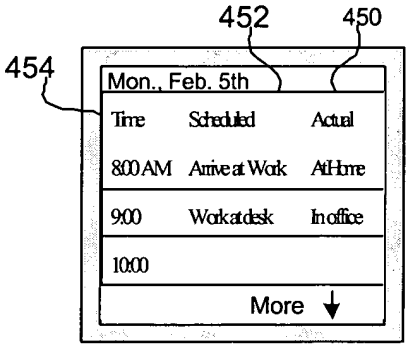

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FIG. 10

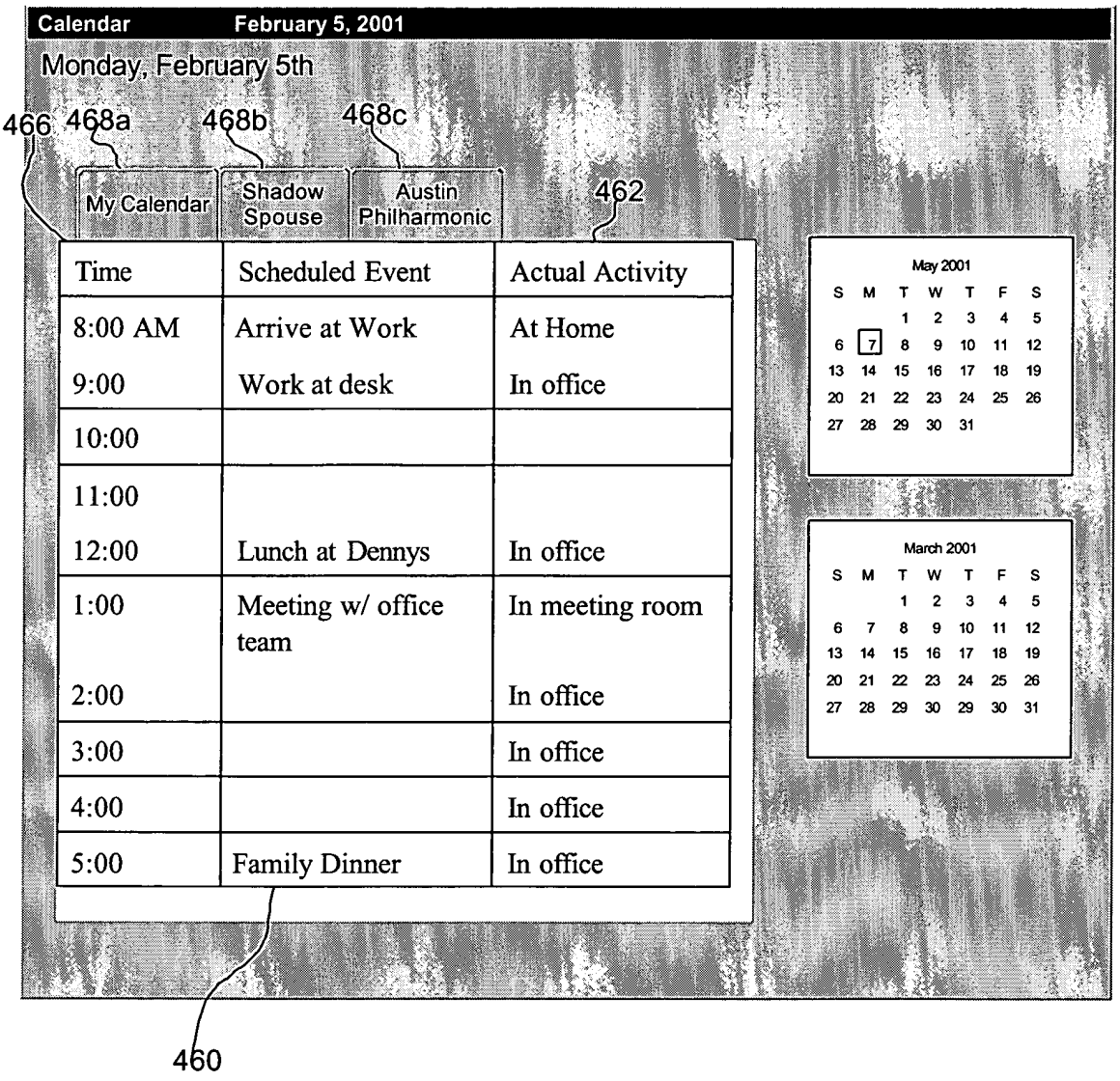

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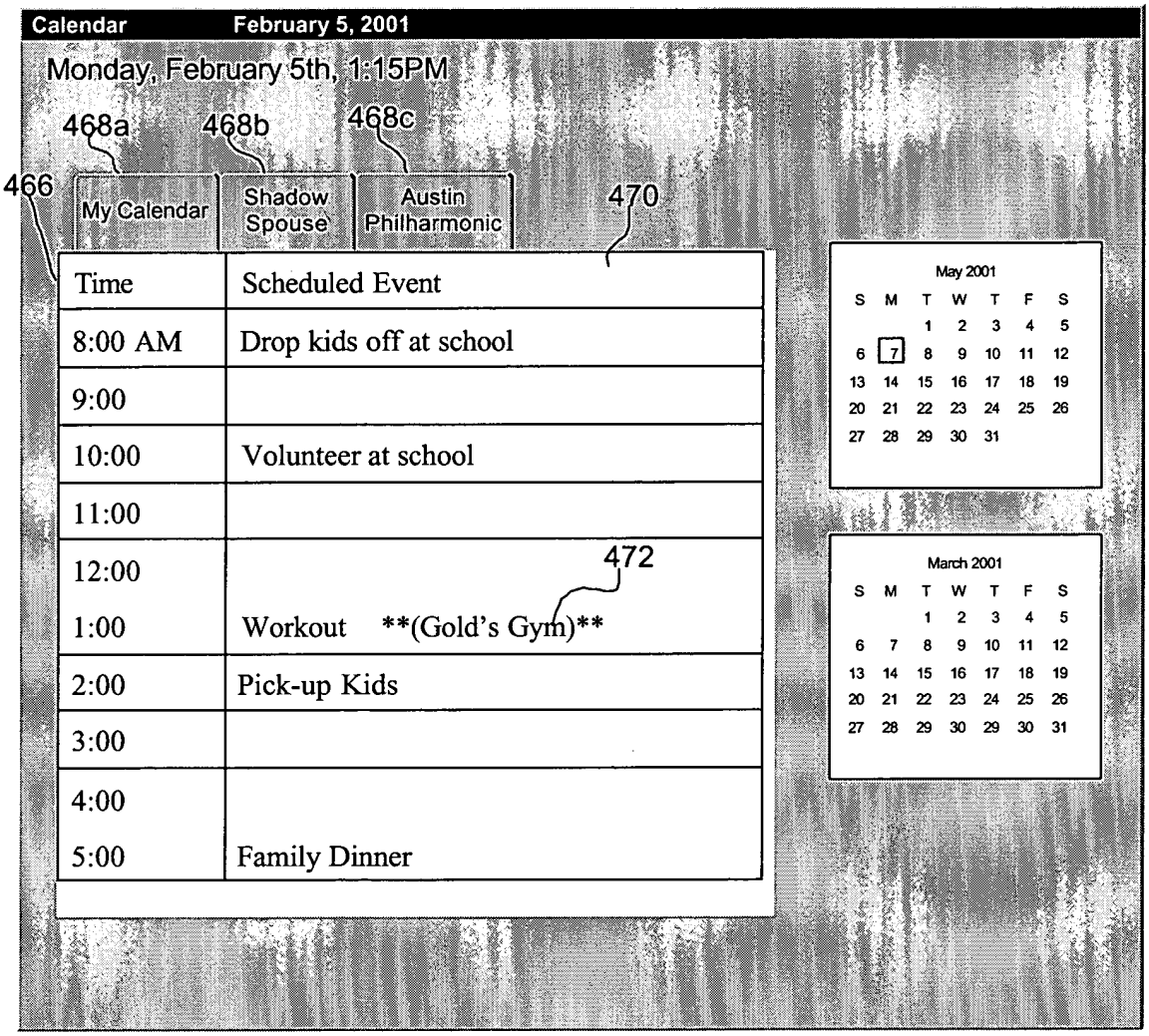
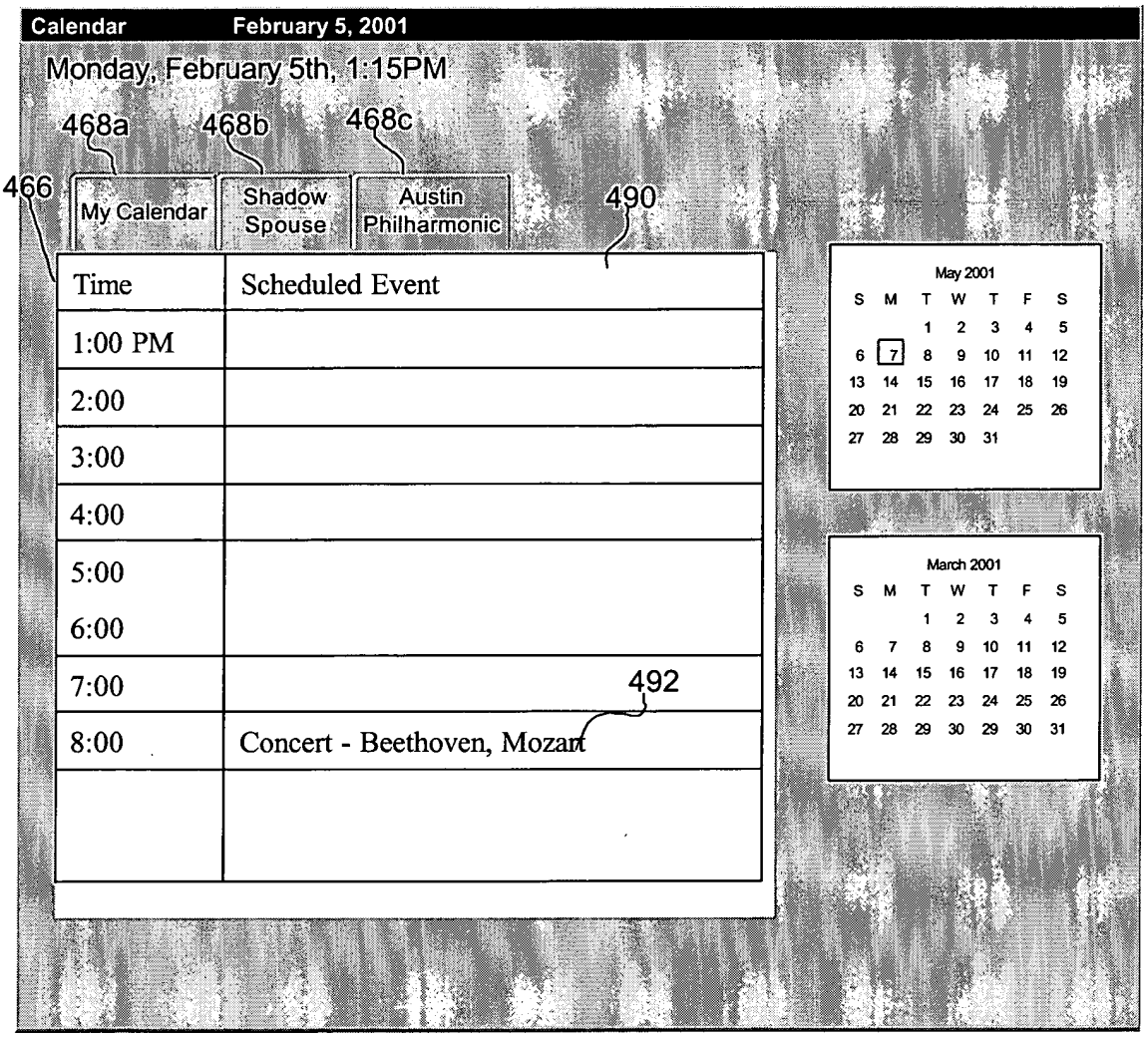
FIG. 11



09809745.050502

FIG. 12



09884714.050501

FIG. 13

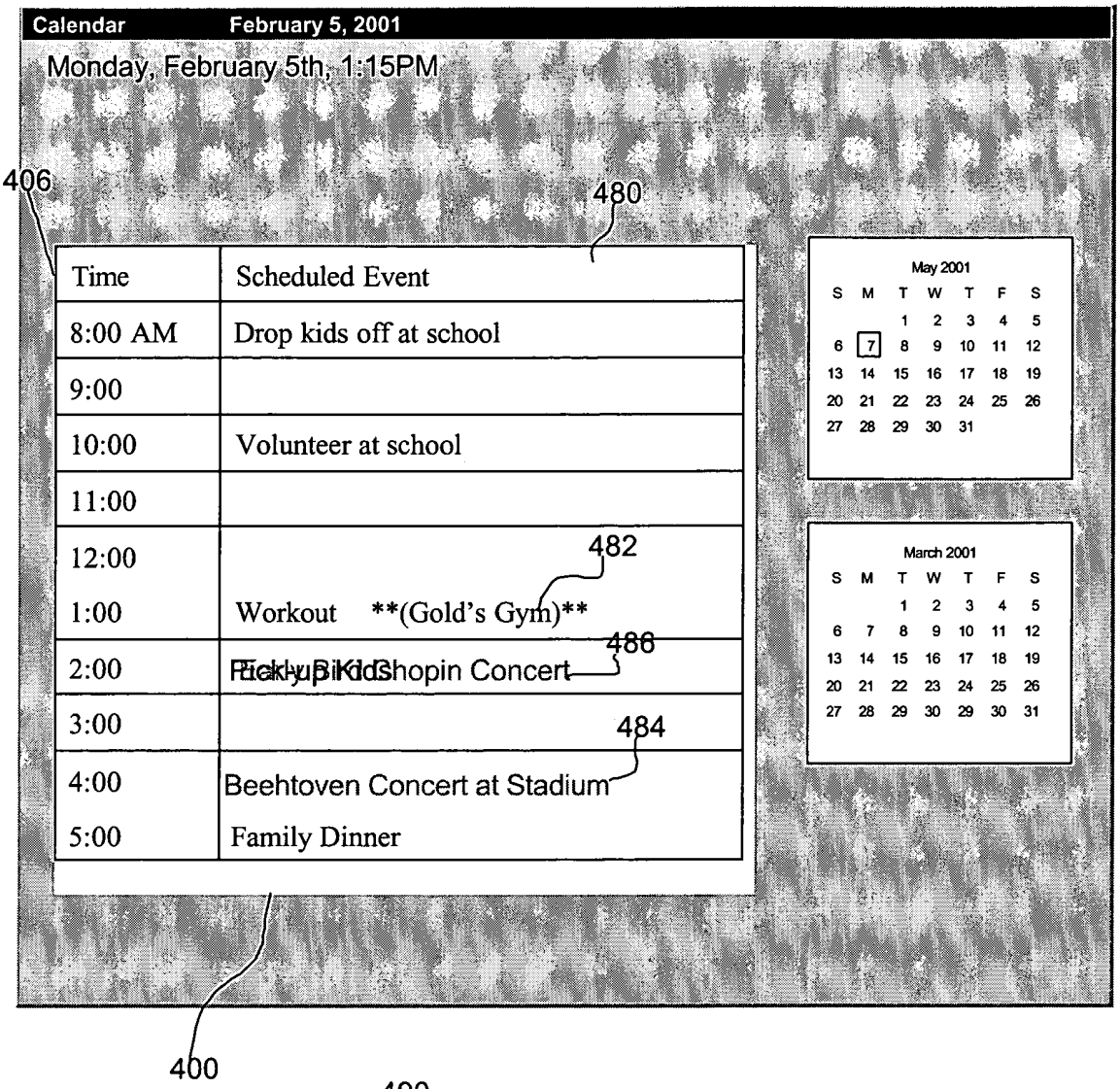


FIG. 14

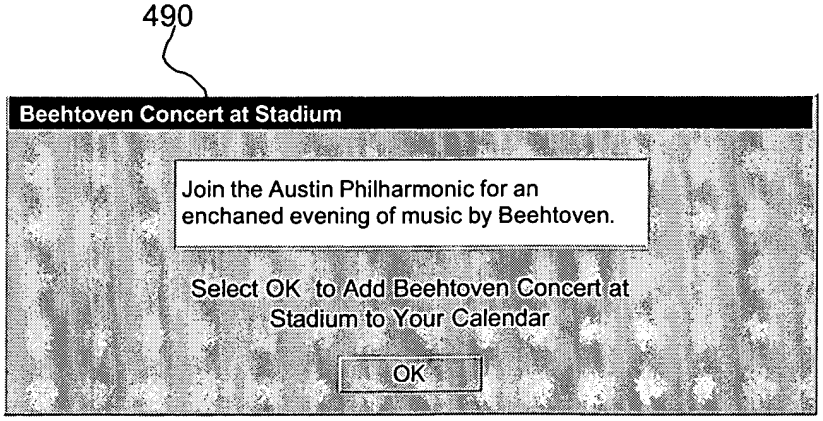


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FIG. 15

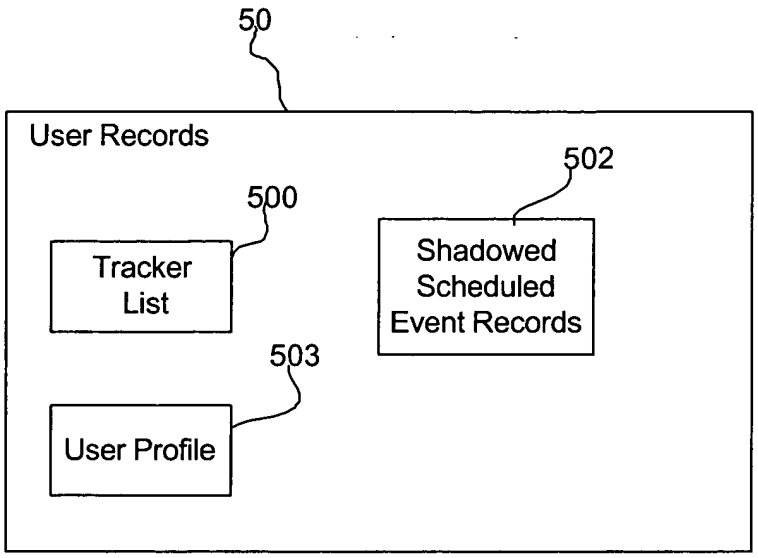
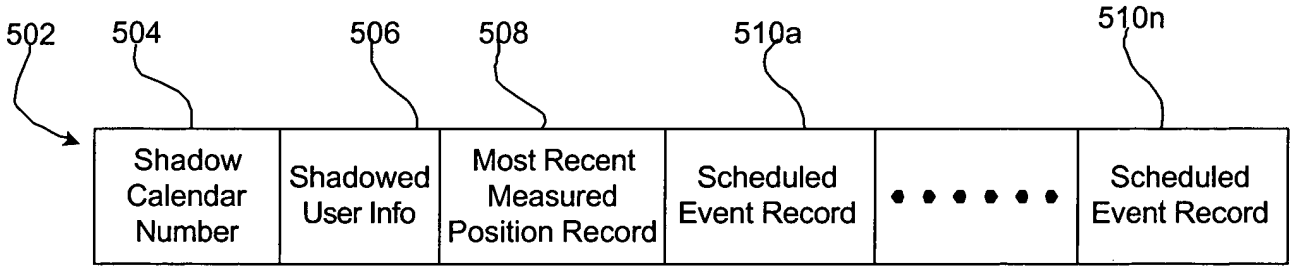


FIG. 16



Shadowed Scheduled Event Record

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FIG. 17

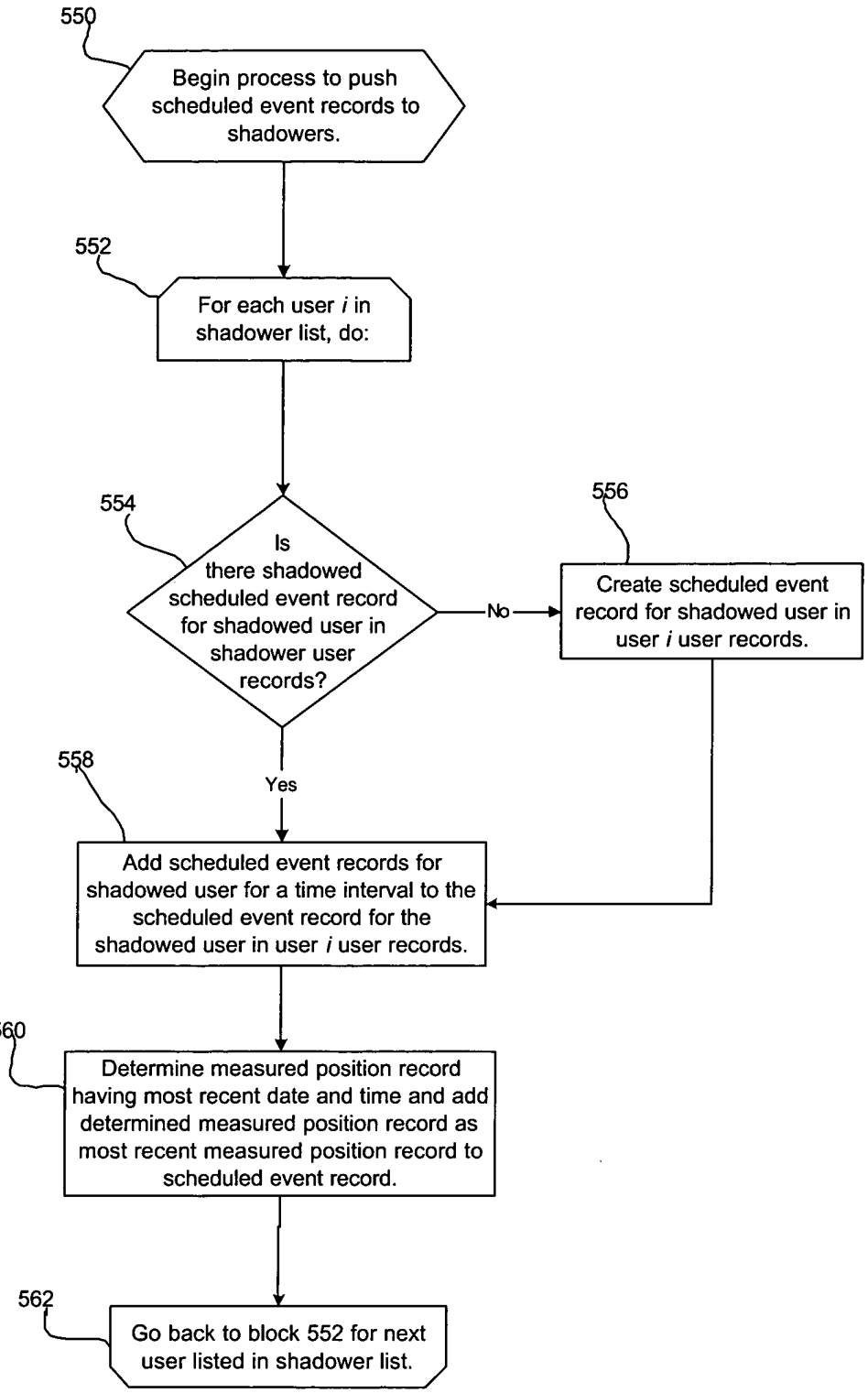

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FIG. 18

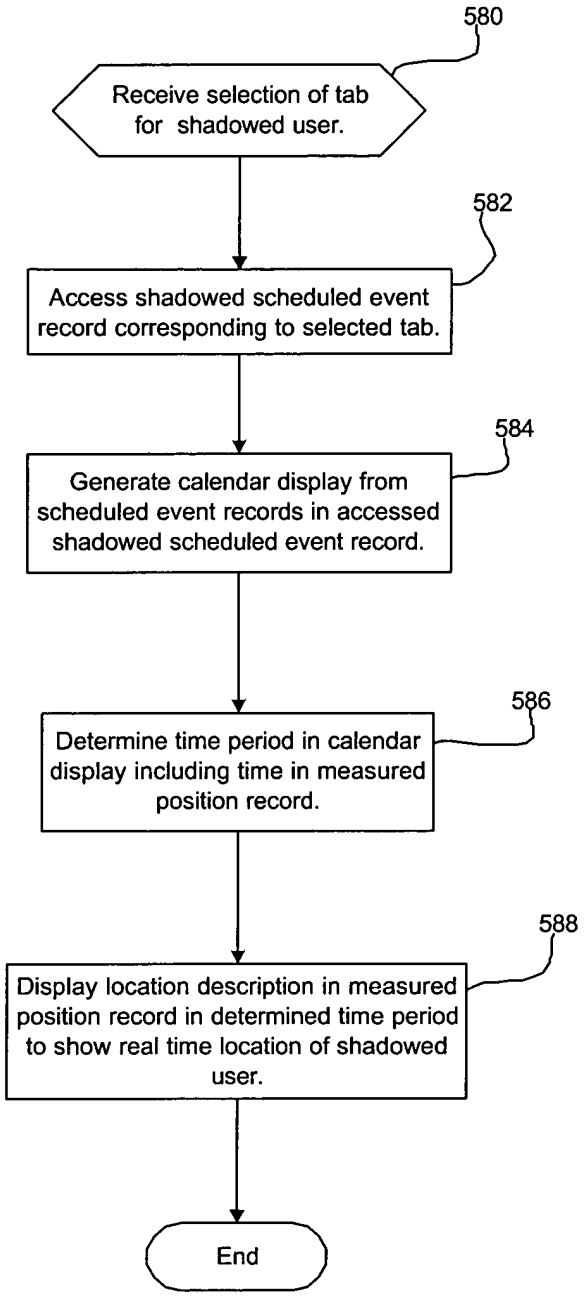

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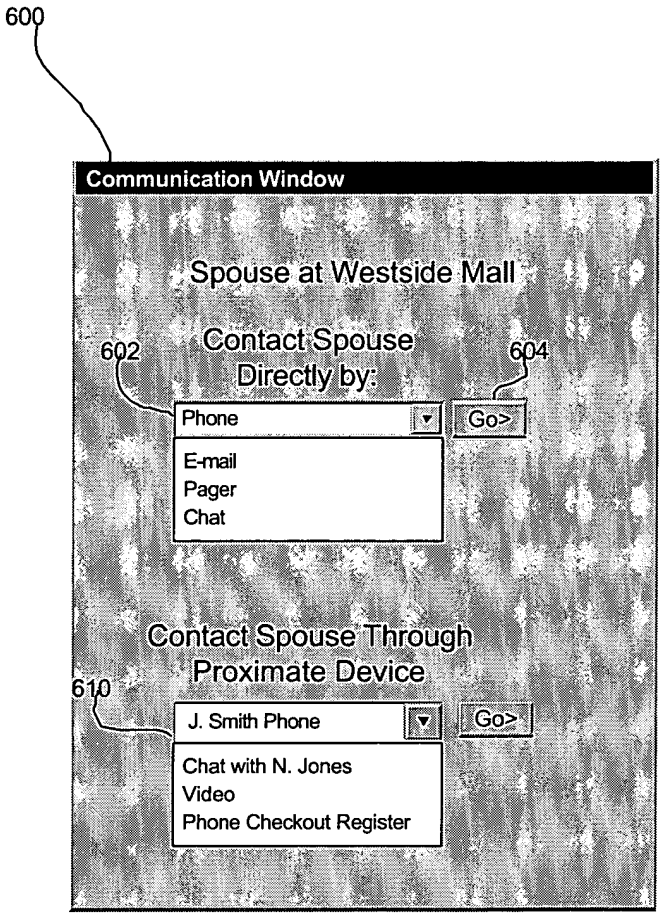
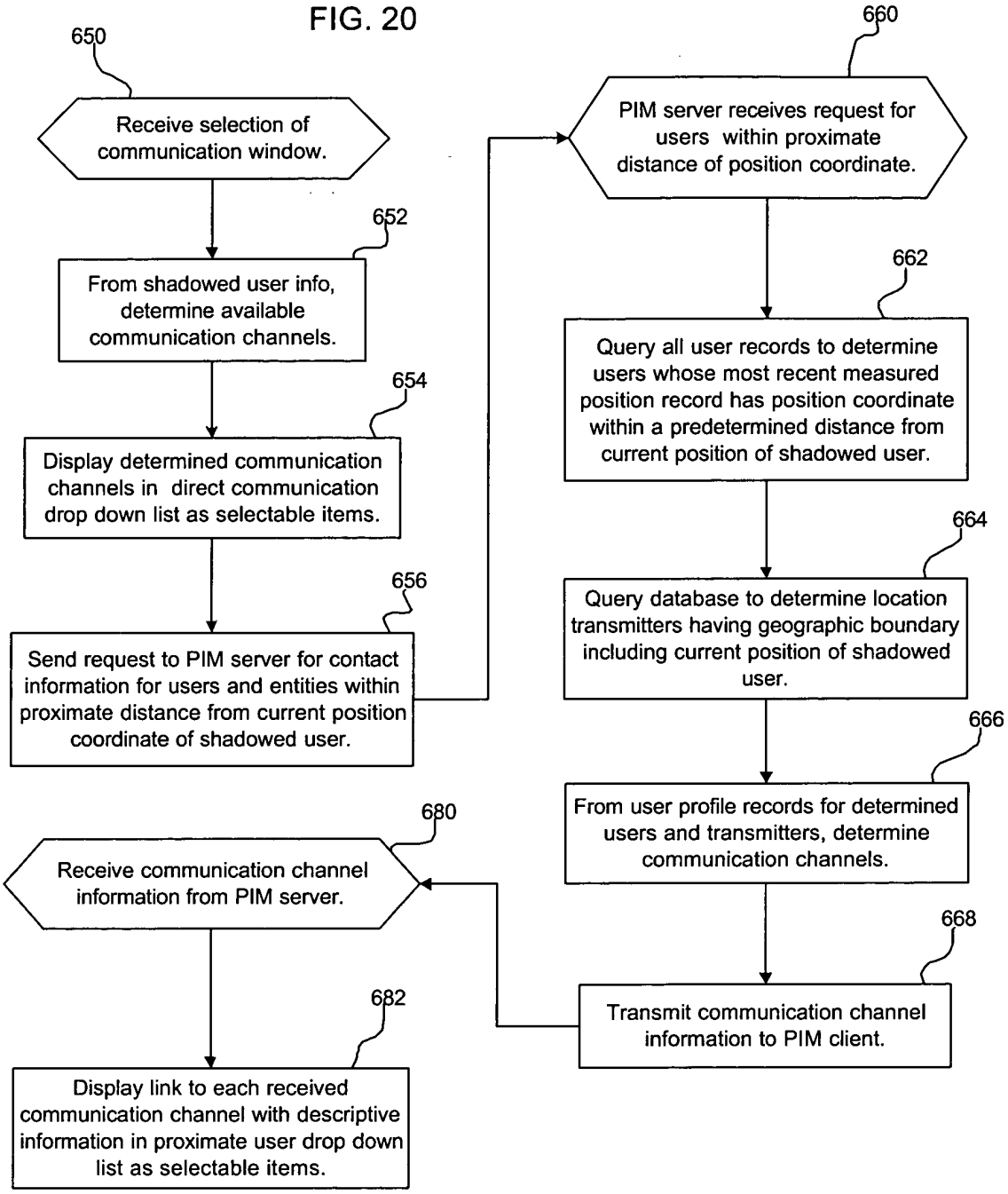
FIG. 19



Doc Code: AP.PRE.REQ

FIG. 20



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